Project Audit

Project:

ApeFund

December 1, 2021

Overview

This audit has been prepared for **ApeFund** to review the main aspects of the project to help investors make make an informative decision in the research process.

You will find a a summarized review of the following main key point::

- Contract's source code
- Project and team
- Website
- Social media & online presence

Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.
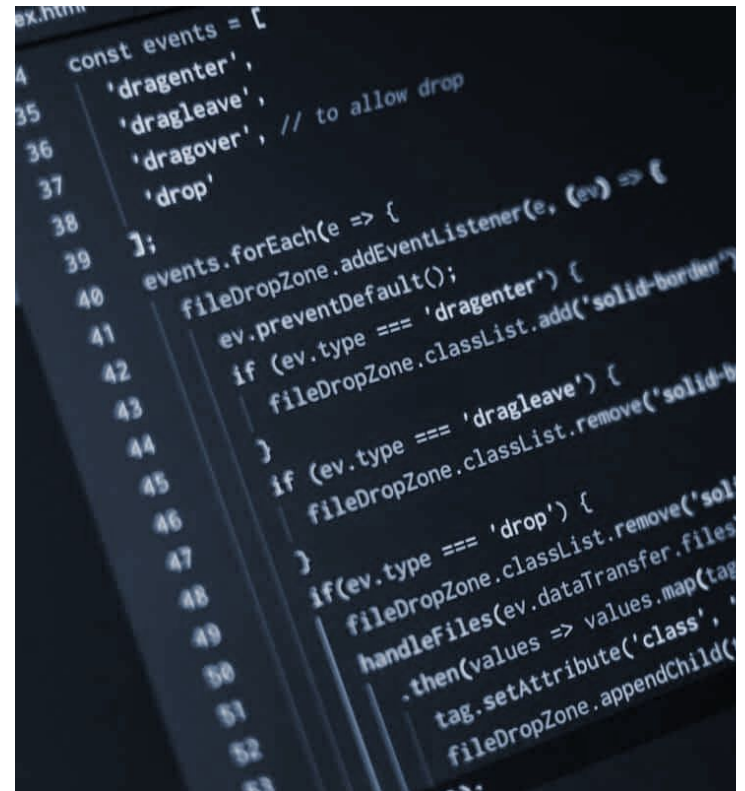
"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"
- SpyWolf Team

Smart Contract Summary

Contract Name	BABYTOKEN
Ticker	APEFUND
Contract	0xf81f3ff200abd5451e78105eaa7ee9f8e8dd20f8
Network	Binance Smart Chain
Language	Solidity
Tax	15% (Buy/Sell) - 10% Rewards - 2% Liquidity - 3% Marketing
Total Supply	100,000,000
Contract Type	Rewards Token (BUSD)
Status	Launched

Featured Wallets

Owner Address	0xb7bd9a93722306dc931e26f0af0edd3926befe94
LP token address	0x4905ac255D142bab71Ec4Cd2b290C29A736A4E7B
Dividend Tracker	0x4088fff8737ce4ef37ae871730ed8024ecb35ea0
Marketing Wallet	0xba9728d851a501fb33b7bf2872327ad644136acb

Top 3 Unlocked Wallets

Wallet 1 （6%）	0x039dae3ea834ced1b5bb05100fe05077d60a5484
Wallet 2 （2%）	0xe208345dbf806dbecf548f6b55aee5973f5686d1
Wallet 3 （1.5%）	0xca1fb378ec907c586f96804bae8e681aebd46c3d

Issues Checking Status	
Design Logic	**Passed ✓**
Compiler warnings.	**Passed ✓**
Private user data leaks	**Passed ✓**
Timestamp dependence	**Passed ✓**
Integer Overflow and Underflow	**Passed ✓**
Race conditions and Reentrancy. Cross-function race conditions	**Passed ✓**
Possible delays in data delivery	**Passed ✓**
Oracle calls	**Passed ✓**
Front running	**Passed ✓**
DoS with Revert	**Passed ✓**
DoS with block gas limit	**Passed ✓**
Methods execution permissions	**Passed ✓**
Economy model	**Passed ✓**
The impact of the exchange rate on the logic	**Passed ✓**
Malicious Event log	**Passed ✓**
Scoping and Declarations	**Passed ✓**
Uninitialized storage pointers	**Passed ✓**
Arithmetic accuracy	**Passed ✓**
Cross-function race conditions	**Passed ✓**
Safe Zeppelin module	**Passed ✓**
Fallback function security	**Passed ✓**

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Security Threats

- **Owner can change BUSD Rewards, Liquidity Fee and Marketing Fee**

```solidity
function setTokenRewardsFee(uint256 value) external onlyOwner {
    tokenRewardsFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
}
```

- **Owner can exclude accounts from paying fee**

```solidity
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "BABYTOKEN: Account is already the value of 'excluded'"
    );
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}

function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded)
    public
    onlyOwner
{
    for (uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFees[accounts[i]] = excluded;
    }

    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```

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Security Threats

- **Owner can change time frame for receiving rewards**

```
function updateClaimWait(uint256 claimWait) external onlyOwner {
    dividendTracker.updateClaimWait(claimWait);
}
```

- **Owner can change the marketing wallet**

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

ApeFund Project & Team Review

According to their website, ApeFund is a community project where holders will earn 10% BUSD rewards from all transactions*. With these rewards you can buy into community-voted tokens and projects.
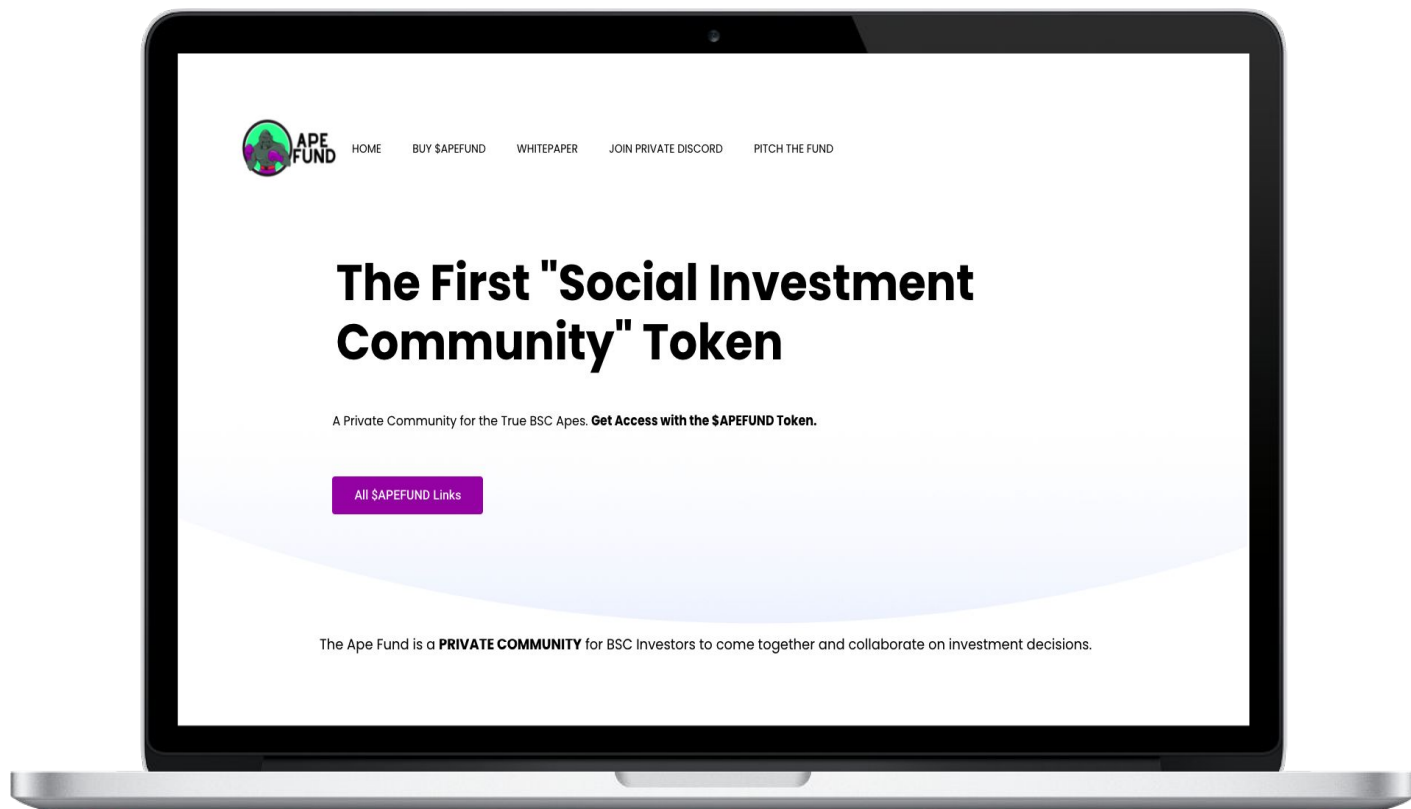
Team:

According to their whitepaper, the team's background is complementary and comprehensive - including experience working with at Investment Funds, Marketing at Top-Tier Tech Companies, and Early Stage Tech Companies in Silicon Valley.

- They are privately doxxed and KYCd to Pinksale.
- Active on voice chat

Website Analysis

- **Design:** Simple with a cohesive color scheme.
- **Content:** Content is well written with no grammar errors. Easy to read
- **Whitepaper:** Well written and it matches the rest of the content and numbers.
- **Roadmap:** Clear and realistic
- **Mobile-friendly?** Yes
- **Technical:** SSL certificate present. General SEO check passed.

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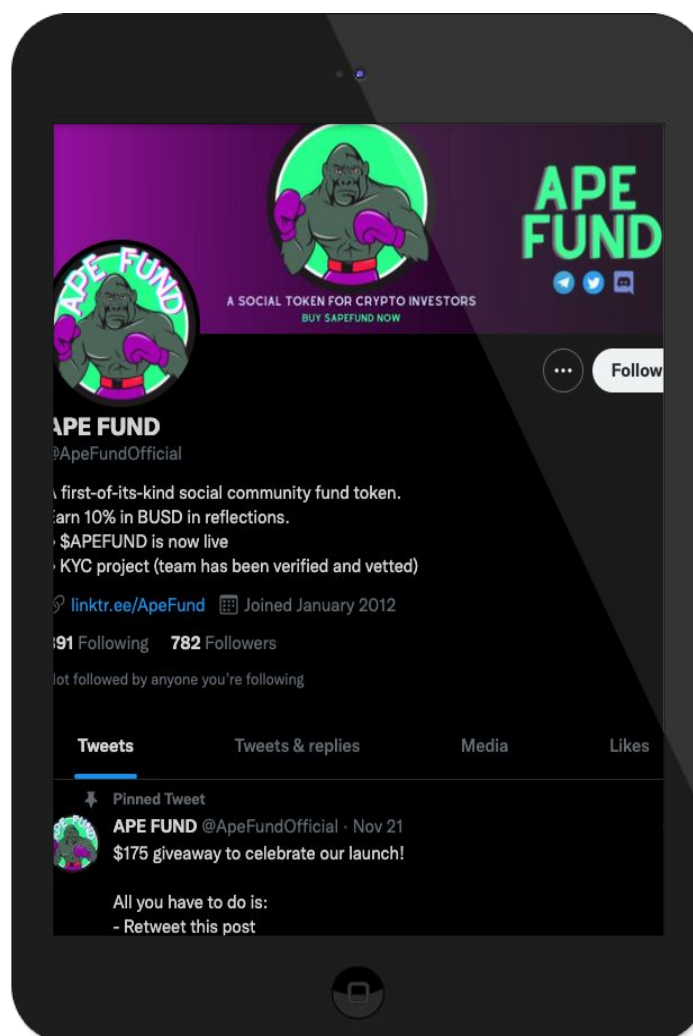# Social Media & Online Presence

Telegram

- 1132 members

- Active devs & mods

Twitter

- 782 Followers

- Very active

About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, $SPY.

▶ Website: SpyWolf.co

▶ Telegram: @SpyWolfNework

▶ Twitter: Twitter.com/SpyWolfNetwork
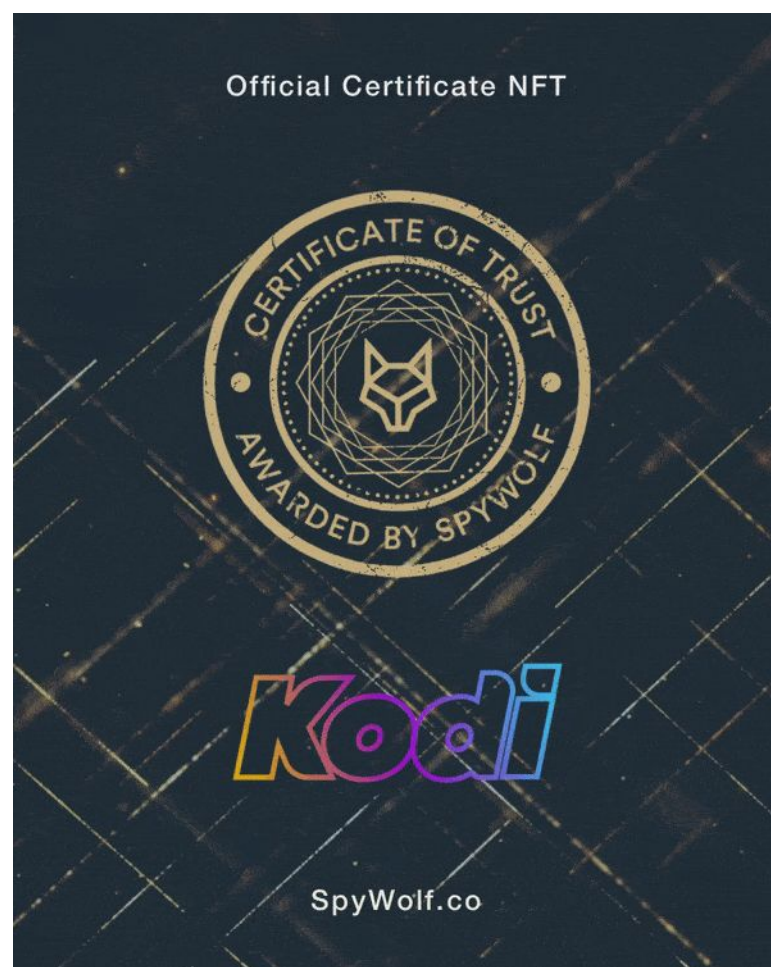
Sample NFT Certificate

If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to contact@spywolf.co.

Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.